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* * * * * * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAplus records now contain indexing from 1907 to the present
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0b(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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NEWS WWW CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:52:03 ON 04 NOV 2003

| => fil reg | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 07:52:11 ON 04 NOV 2003
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STRUCTURE FILE UPDATES: 3 NOV 2003 HIGHEST RN 612478-18-9
DICTIONARY FILE UPDATES: 3 NOV 2003 HIGHEST RN 612478-18-9

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

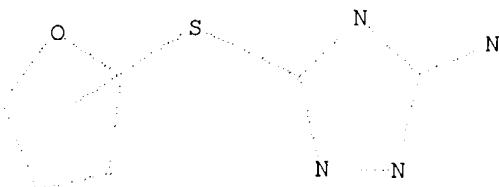
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>
Uploading 10089433.str

L1 STRUCTURE uploaded

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 190 TO ITERATE

100.0% PROCESSED 190 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2973 TO 4627
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full
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FULL SCREEN SEARCH COMPLETED - 3403 TO ITERATE

100.0% PROCESSED 3403 ITERATIONS 15 ANSWERS

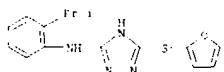
Page 3 11/04/2003

SEARCH TIME: 00.00.01

L3 15 SEA SSS FUL L1

=> d scan

L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-(1-methylethyl)phenyl)-
 (9CI)
 MF C15 H16 N4 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (0):14

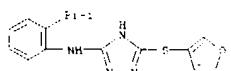
L4 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(3-furylthio)-N-phenyl- (9CI)
 MF C12 H10 N4 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

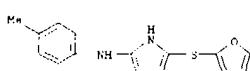
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L5 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
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 (9CI)
 MF C15 H16 N4 O S



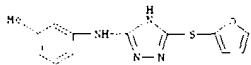
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 MF C10 H12 N4 O S



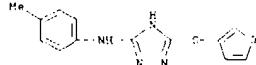
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L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-methylphenyl)- (9CI)
 MF C13 H12 N4 O S



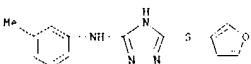
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 MF C13 H12 N4 O S



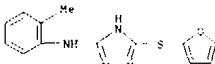
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L4 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-methylphenyl)- (9CI)
 MF C13 H12 N4 O S



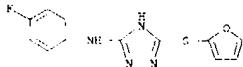
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L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-methylphenyl)- (9CI)
 MF C13 H12 N4 O S



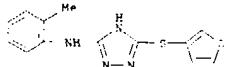
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
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 MF Cl2 H9 F N4 S 5



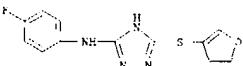
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(3-furylthio)-N-(2-methylphenyl)- (9CI)
 MF C13 H12 N4 S 5



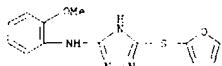
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, N-(4-fluorophenyl)-5-(2-furylthio)- (9CI)
 MF Cl2 H9 F N4 S 5



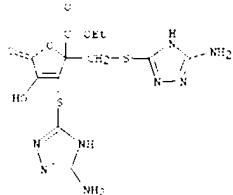
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-methoxyphenyl)- (9CI)
 MF C14 H12 N4 O2 S



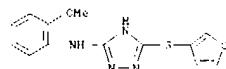
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(5-amino-1H-1,2,4-triazol-1-yl)thio-2-((1S-
 amino-1H-1,2,4-triazol-3-yl)thio)methyl)-2-hydroxy-4-oxo-,
 ethyl ester (9CI)
 MF C12 H14 N8 S5



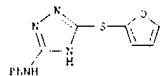
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L3 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-(2-methoxyphenyl)- (9CI)
 MF C13 H12 N4 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN 1H-1,2,4-Triazol-3-amine, 5-(2-furylthio)-N-phenyl- (9CI)
 MF C12 H10 N4 C S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

| | | |
|----------------------|------------|---------|
| => fil caplus | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| FULL ESTIMATED COST | ENTRY | SESSION |
| | 148.55 | 148.76 |

FILE 'CAPLUS' ENTERED AT 07:53:18 ON 04 NOV 2003
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FILE COVERS 1907 - 4 Nov 2003 VOL 139 ISS 19
FILE LAST UPDATED: 3 Nov 2003 (20031103/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4          2 L3
=> d ibib abs hitstr 1-2
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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2004-610440 CAPLUS

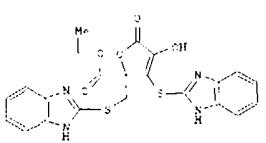
DOCUMENT NUMBER: 134-179566

TITLE: Preparation of furanones as cyt protectants for neuroinflammation and neurodegenerative disorders
INVENTOR(S): Wang, Bang; Zhang, Wei; Song, Jianzhu; Del Balzo, Ughetta; Brown, Leslie; Walkingshaw, Gail
PATENT ASSIGNEE(S): Gallico Laboratories, Inc., USA
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2003-064401 | A1 | 20030307 | WO 2003-052766 | 20030119 |
| W1: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CZ, DE, DK, EE, ES, FI, GR, HU, IE, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LK, LT, LV, MA, MG, MR, MU, NL, PT, RO, RU, SE, SI, SK, SL, TR, TM, TW, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW; AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RU: RU, SR, KE, LS, MW, ME, SD, SL, SZ, TZ, US, SH, ZW, AI, EE, BG, CH, CY, CZ, DE, DK, ES, FI, FR, GR, HU, IE, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LK, LT, LV, MA, MG, MR, MU, NL, PT, RO, RU, SE, SI, SK, TR, BE, BE, CG, CL, FM, GA, GR, IS, IQ, GW, NL, MR, NE, SN, TD, TS | | | | |
| US 2003-176361 | A1 | 20030316 | US 2003-154474 | 20030129 |

PRIORITY APPLN. INFO.: WO 2002-357039P P 20020131
 OTHER SOURCE(S): MARPAT 139:179565
 51

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



AB: **Title:** Compds. I [wherein R1 = CO2R', CONH'R'', CH2CR''', CN, (un)substituted heteroaryl]; heteroarylalkyl, heteroaryl, heteroaralkyl, heteroaralkylalkyl, R2, R3 - independently (1)substituted alkyl, cyanoalkyl, amyl, alkoxyl, heteroacyl, heteroaryl, heteroaralkyl, nucleoside, amino acid, di-, tri- or tetra-peptides; R4 = H, alkyl, alkylcarboxyl, (alkylalkyl)alkyl, dual-phosphoryloxy; X = alkylene, NR'; S, SO, SO2, or XR2; or XR3]2; Y = O, S, SO, SO2; or XR3 = PO(R'')2; or XR3 = (un)substituted aliph. or aram. ring; R' = H, alkenyl, (un)substituted alkyl, cycloalkyl, phosphoryl, acyl; R'' = H, alkenyl, (un)substituted alkyl, alkyl, alkyl carboxyl atoms that form (un)substituted 5-7 membered diaryl, heteroaryl rings; R''' = H, alkyl, (un)substituted alkyl, acyl, phosphoryl, phosphoryl, acyl] with the proviso that the compd. is not 4-hydroxy-3-methoxybutyryl, 2-methylbutyrylmethyl-5-oxo-2,5-dihydrofuran-2-carboxylic acid, Et ester, and further with the proviso that when X = alkylene, R2, R3, (un)substituted alkyl; and their single isomers, single stereoisomers, mixts. of tautomers and/or stereoisomers, and pharmaceutically acceptable salts] were prepd. as cyt-protectants for neuroinflammation and neurodegenerative disorders. For example, I1 was prepd. by reaction of 2-mercaptobenzimidazole with Et bromopyruvate in ethan./acetone and aldol condensation of the two tautomeric forms of the pyruvate intermediate. Selected invention compds. showed significant reduce. in edema in assays assessing mouse ear inflammatory response to topical arachidonic acid (100 to 700, p < 0.05). Results from neuronal cell stress assay, myocyte calcium-contractility assay, and rat middle cerebral artery occlusion model were disclosed for selected invention compds. Thus, I and their pharmaceutical formulations are useful in the treatment of stroke, cerebral ischemia, myocardial infarction, myocardial ischemia, chronic heart failure, inflammation and other oxidative stress-related conditions, and Alzheimer's disease and senile dementia (in data).

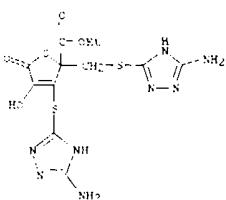
I7 577952-30-2P, 3-[(5-Amino-2H-[1,2,4-triazol-3-yl)sulfanyl]-2-((1S)-amino-2H-[1,2,4-triazol-3-yl])sulfanylmethyl)-4-hydroxy-5-oxo-2,5-

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 dihydrofuran-2-carboxylic acid ethyl ester
 BL1: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);

(cyt-protective agents; prep. of furanone cyt-protectants via 4,5-dihydrocondensation for treatment of neuroinflammation and neurodegenerative disorders)

EN 577952-50-2 CAPLUS

CN 2-Furancarboxylic acid, 3-[(5-amino-1H,2,4-triazol-3-yl)thio]-2-[(5-amino-1H-1,2,4-triazol-3-ylthio)methyl]-2,5-dihydro-4-hydroxy-5-oxo-2-ethyl ester (PCI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001-265251 CAPLUS

DOCUMENT NUMBER: 134-255827
TITLE: 3-Amino-5-benzothiophene-1,2,4-triazoles and analogues compounds and methods of use as inhibitors of type I methionine aminopeptidase (MetAP2)

INVENTOR(S): Marion, Joseph F., Jr.; Thompson, Scott K.; Weber, Daniel Frank

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA
SOURCE: PCT Int. Appl., 157 pp.

CODEN: PIXX02

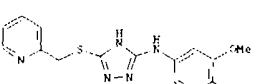
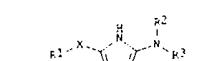
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

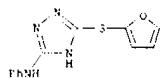
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2001-024736 | A1 | 20010412 | WO 2000-052695I | 20000929 |
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| EP 1223912 | A1 | 20020724 | EP 2000-970521 | 20000929 |
| RU: AI, BE, CH, DE, DK, ES, FI, FR, GR, KZ, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| JP 2003-103591 | TZ | 20030418 | JP 2001-521795 | 20000929 |
| INRIORITY APPLN. INFO.: US 1999-157286P P 19951201 | | | | |
| OTHER SOURCE(S): MARPAT 134:295827 | | | | |
| 51 | | | | |



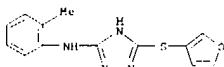
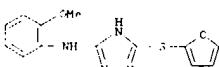
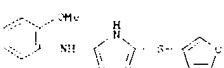
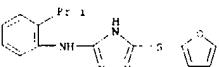
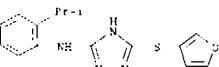
AB: The compds. of the invention are non-peptide, reversible inhibitors of type I methionine aminopeptidase (MetAP2), and are useful in treating conditions mediated by angiogenesis, such as cancer, hemangioma, proliferative retinopathy, rheumatoid arthritis, atherosclerosis, neovascularization, psoriasis, ocular neovascularization, and obesity. In particular, the method of inhibiting MetAP2 with triazoles I and their

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 pharmaceuticals, salts and solvates is claimed [wherein: X = S or O; R1 = (un)substituted C1-6 alkyl, C3-6 alkenyl, (un)substituted aralkyl, (un)substituted heterocyclylalkyl, or -Y1-C(=O)alkylalkyl; R2 = (un)substituted C2-6 alkyl, C3-6 alkenyl, C3-6 alkynyl, (un)substituted aralkyl, (un)substituted heterocyclylalkyl, cycloalkylalkyl; R3 = H, (un)substituted C1-6 alkyl, C3-6 alkenyl, C3-6 alkynyl, (un)substituted aralkyl, (un)substituted heterocyclylalkyl, cycloalkylalkyl; A and/or B may be absent]. A total of 312 synthetic examples are given. For instance, treatment of thioesters with NaOM and then Ph₃P=CH₂Cl₂ gave 1 phenyl-2,4-dithiobiphenol, i.e., Ph₃P=CH₂Cl₂(SINHC₆H₄CO₂R), which reacted with NEt₃ and EtI in CHCl₃ to give 2-ethoxy-1 phenyl-2,4-dithiobiphenol, i.e., Ph₃P=CH₂Cl₂(SINHC₆H₄CO₂Et).
 17 334538-78-2P, 3 Anilino-5-(furan-2-ylthio)-1,2,4-triazole
 334538-87-3P, 3-Anilino-5-(furan-3-ylthio)-1,2,4-triazole
 334538-99-7P, 3-(4-Methylanilino)-5-(furan-2-ylthio)-1,2,4-triazole
 334539-08-1P, 3-(4-Methylanilino)-5-(furan-3-ylthio)-1,2,4-triazole
 334539-21-0P, 3-(2-Methylanilino)-5-(furan-2-ylthio)-1,2,4-triazole
 334539-30-9P, 3-(2-Methylanilino)-5-(furan-3-ylthio)-1,2,4-triazole
 334540-40-0P, 3-(2-Methoxyanilino)-5-(furan-2-ylthio)-1,2,4-triazole
 334540-48-6P, 3-(2-Methoxyanilino)-5-(furan-3-ylthio)-1,2,4-triazole
 334540-63-5P, 3-(2-Methylpyrrolanino)-5-(furan-2-ylthio)-1,2,4-triazole
 334540-71-5P, 3-(2-Piperidylmethylamino)-5-(furan-2-ylthio)-1,2,4-triazole
 334540-86-2P, 3-(4-Methylanilino)-5-(furan-2-ylthio)-1,2,4-triazole
 334540-95-3P, 3-(4-Methylanilino)-5-(furan-3-ylthio)-1,2,4-triazole
 334541-50-3P, 3-(4 Fluoranilino)-5-(furan-2-ylthio)-1,2,4-triazole
 334541-61-6P, 3-(4-Fluoranilino)-5-(furan-3-ylthio)-1,2,4-triazole
 RN: BAU (Biological activity or effector, except adverse); B3U (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); TICL (Biological study); PKEP (Preparation); USEN (Chemical candidate prep); UAMN (amino(furanylthio)triazole deriv. as MetAP2 inhibitors)
 CN: 034538-78-2 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(2 furanylthio)-N-phenyl- (9CI) (CA INDEX NAME)

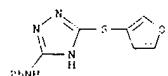
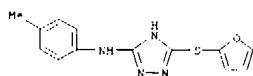
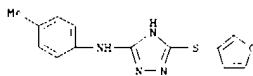
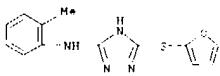


RN: 334538-87-3 CAPLUS

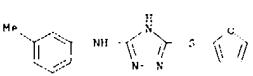
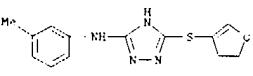
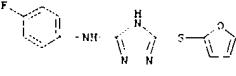
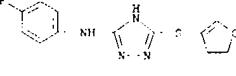
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN: 334540-80-8 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(2 furanylthio)-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)RN: 334540-48-6 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(3 furanylthio)-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)RN: 334540-63-5 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(2 furanylthio)-N-(2-(1-methylethyl)phenyl)- (9CI) (CA INDEX NAME)RN: 334540-71-5 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(3 furanylthio)-N-(2-(1-methylethyl)phenyl)- (9CI) (CA INDEX NAME)RN: 334540-86-2 CAPLUS
 CN: 3H-1,2,4-Triazol-3-amine, 5-(2 furanylthio)-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 1H-1,2,4-Triazol-3-amine, 5-(3-furanylthio)-N-phenyl- (9CI) (CA INDEX NAME)

RN: 334538-93-7 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, 5-(2-furanylthio)-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)RN: 334539-08-1 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, 5-(3-furanylthio)-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)RN: 334539-21-9 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, 5-(2 furanylthio)-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)RN: 334539-46-9 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, 5-(3-furanylthio)-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN: 334540-95-3 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, 5-(3-furanylthio)-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)RN: 334541-50-3 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, N-(4-fluorophenyl)-5-(3-furanylthio)- (9CI) (CA INDEX NAME)RN: 334541-61-6 CAPLUS
 CN: 1H-1,2,4-Triazol-3-amine, N-(4-fluorophenyl)-5-(3 furanylthio)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Page 11 11/04/2003

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 10.32 | 159.08 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -1.30 | -1.30 |

STN INTERNATIONAL LOGOFF AT 07:55:02 ON 04 NOV 2003